

LINEAR ALGEBRA AND ITS APPLICATIONS

Editor-in-Chief

Richard A. Brualdi and Hans Schneider

Department of Mathematics, The University of Wisconsin, Madison, Wisconsin 53706

Associate Editors

T. Ando

Division of Applied Mathematics
Research Institute of Applied
Electricity
Hokkaido University
Sapporo 060, Japan

George P. Barker*

Mathematics Department
University of Missouri
at Kansas City
5100 Rockhill Road
Kansas City, Missouri 64110

Stephen Barnett

School of Mathematical Sciences
University of Bradford
West Yorkshire
Bradford BD7 1DP, England

Bryan Cain

Department of Mathematics
Iowa State University
Ames, Iowa 50011

Graciano de Oliveira

Departamento de Matematica
Apt. 3008,
Universidade de Coimbra
3000 Coimbra, Portugal

Iain Duff

Bldg. 8-0 Aere Harwell
Didcot (Oxon OX11 0ra)
England

Ludwig Elsner

Fakultät für Mathematik
Universität Bielefeld
Postfach 8640
D-4800 Bielefeld,
West Germany

Edward Formanek

Department of Mathematics
Pennsylvania State University
University Park,
Pennsylvania 16802

Shmuel Friedland

Department of Mathematics
University of Illinois at Chicago
Chicago, Illinois 60680

Paul A. Fuhrmann

Department of Mathematics
Beer Gurion University
of the Negev
Beer Sheva, Israel

J. Alan George

Mathematical Sciences Section
Oak Ridge National
Laboratory
Oak Ridge, Tennessee 37831

Moshe Goldberg

Department of Mathematics
Technion—Israel Institute
of Technology
Haifa 32000
Israel

Robert Guralnick

Department of Mathematics
University of Southern
California
Los Angeles, California
90089-1113

Robert E. Hartwig

Department of Mathematics
North Carolina State University
Raleigh, North Carolina 27650

Charles R. Johnson

Mathematical Sciences
Department
Clemson University
Clemson, South Carolina
29631

Thomas J. Laffey

Department of Mathematics
University College Belfield
Dublin 4, Ireland

Peter Lancaster

Department of Mathematics
University of Calgary
Calgary, Alberta,
Canada T2N 1N4

Raphael Loewy

Department of Mathematics
Technion—Israel Institute of
Technology
Haifa, 32000
Israel

Michael Neumann

Department of Mathematics
The University of Connecticut
Storrs, Connecticut 06268

Beresford N. Parlett

Department of Mathematics
University of California
Berkeley, California 94120

Vera S. Pless

Department of Mathematics
University of Illinois
Chicago, Illinois 60680

Vlastimil Pták

Institute of Mathematics
Czechoslovak Academy
of Sciences
Žitná 25, 115 67 Praha 1
Czechoslovakia

C. R. Rao

Department of Mathematics
and Statistics
University of Pittsburgh
Pittsburgh, Pennsylvania 15260

Donald Rose

Computer Science Department
Duke University
Durham, North Carolina 27706

Uriel Rothblum

Faculty of Industrial
Engineering Management
Technion—Israel Institute
of Technology
Technion City, Haifa 32000,
Israel

George P. H. Styan

Department of Mathematics
and Statistics
McGill University
Montreal, Quebec
Canada H3A 2K6

Harald Wimmer

Department of Mathematics
University of Würzburg
D-8700 Würzburg,
West Germany

*Special responsibility for book reviews.

GERARD SIERKSMA AND ALBERT

- E. STEENGE (Groningen, The Netherlands)
Two-Minor Stable Matrices and the Open Leontief Model 1

- R. W. FAREBROTHER (Manchester, United Kingdom)
Three Theorems with Applications to Euclidean Distance
Matrices 11

- RUUD ERMERS AND BEN POLMAN (Nijmegen, The Netherlands)
On the Eigenvalues of the Structure Matrix of Matrices of
Zeros and Ones 17

- RAJENDRA BHATIA (New Delhi, India) AND JOHN A. R. HOLBROOK
(Guelph, Ontario, Canada)
Unitary Invariance and Spectral Variation 43

- L. N. VASERSTEIN (University Park, PA) AND B. A. MAGURN
(Oxford, OH)
Prestabilization for K_1 of Banach Algebras 69

- H. TH. JONGEN (Enschede, The Netherlands), T. MÖBERT,
J. RÜCKMANN, AND K. TAMMER
(Leipzig, German Democratic Republic)
On Inertia and Schur Complement in Optimization 97

- ABRAHAM BERMAN AND DANIEL HERSHKOWITZ (Haifa, Israel)
Combinatorial Results on Completely Positive Matrices 111

- JAN R. MAGNUS (London, England)
A Representation Theorem for $(\text{tr } A^p)^{1/p}$ 127

- J.-P. CHARLIER AND P. VAN DOOREN (Brussels, Belgium)
On Kogbetliantz's SVD Algorithm in the Presence of Clusters 135

- SUK GEUN HWANG (Taegu, Korea)
On a Conjecture of E. Dittert 161

- LUTHER T. CONNER, JR. AND DAVID P. STANFORD
(Williamsburg, VA)
The Structure of the Controllable Set for Multimodal Systems 171

- SING-CHEONG ONG (Mount Pleasant, MI)
What Kind of Operators Have Few Invariant Subspaces? 181

- DAN SHEMESH (Calgary, Alberta, Canada)
Unobservable Subspaces and Common Roots of Several
Polynomials 187

REPORTS

- G. W. STEWART (College Park, MD)
Review of *Matrix Computations*, by Gene H. Golub and